

GENERIC NAME:

THIAMINE HCl (vitamin B₁)

112.26

BRAND NAME: Betalin

CLASS: vitamin

Mechanism of Action:

Required for carbohydrate metabolism.

Deficiency leads to anemia, polyneuritis, Wernicke's encephalopathy, cardiomyopathy.

Administration may reverse symptoms of deficiency, but effects are dependent upon duration of illness and severity of disease.

Indications and Field Use:

Alcoholism, delirium tremens

Coma of unknown origin, especially if alcohol or malnourishment may be involved.

Suspect Wernicke or Korsakoff Syndrome

Other thiamine deficiency syndromes

Severe congestive heart failure

Contraindications:

Do not give intra-arterial

Adverse Reactions:

Hypotension (rare)

NOTES ON ADMINISTRATION

Incompatibilities/Drug Interactions:

None

Adult Dosage:

100 mg

Pediatric Dosage:

Rarely used

Routes of Administration:

IM

IV over several minutes

GD-055-PHS-EMS: Drug Profile for Thiamine HCl (vitamin B₁)

Onset of Action:

Hours

Peak Effects:

3-5 days

Duration of Action:

Unavailable

Dosage Forms/Packaging:

100 mg/ml; 1 ml ampule or tubex

Arizona Drug Box Supply Range:

PARAMEDIC: 1 - 2 units

INTERMEDIATE: 1 - 2 units

Special Notes:

- > In the known alcoholic patient dextrose should not be administered without thiamine.
- > Thiamine has been shown to be useful in severe congestive heart failure.